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L1              STRUCTURE UPLOADED
L2           50 S L1 SSS SAM

     FILE 'STNGUIDE' ENTERED AT 18:53:15 ON 13 JUN 2007

     FILE 'REGISTRY' ENTERED AT 18:54:28 ON 13 JUN 2007
L3              STRUCTURE UPLOADED
L4            6 S L3 SSS SAM

     FILE 'STNGUIDE' ENTERED AT 18:55:05 ON 13 JUN 2007

     FILE 'REGISTRY' ENTERED AT 19:05:50 ON 13 JUN 2007
L5          123 S L3 SSS FULL

     FILE 'HCAPLUS' ENTERED AT 19:06:12 ON 13 JUN 2007
L6         1005 S L5

     FILE 'STNGUIDE' ENTERED AT 19:06:27 ON 13 JUN 2007

     FILE 'REGISTRY' ENTERED AT 19:12:09 ON 13 JUN 2007
L7              STRUCTURE UPLOADED
L8            2 S L7 SSS SAM
L9           28 S L7 SSS FULL

     FILE 'HCAPLUS' ENTERED AT 19:12:54 ON 13 JUN 2007
L10          11 S L9
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L7 STRUCTURE UPLOADED

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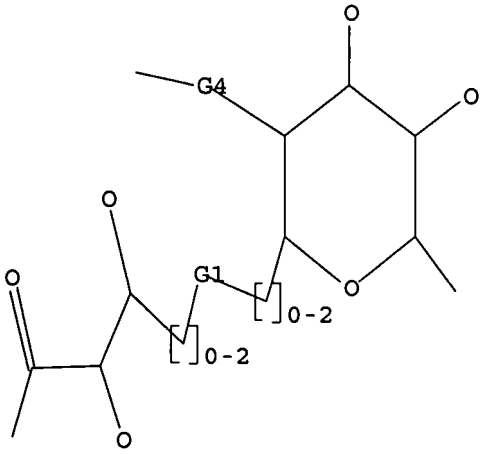
L7 HAS NO ANSWERS
L7 STR



G1 O,S,N,CH2

G2 S,P,CO2H,COOH

G3

G4 O,S,N

=> d l10 ibib abs hitstr 1-11

L10 ANSWER 1 OF 11 HCAPLUS COPYRIGHT 2007 ACS on STN
ACCESSION NUMBER: 2004:333730 HCAPLUS <<LOGINID::20070613>>
DOCUMENT NUMBER: 140:332537
TITLE: Glucose-based compounds with affinity to P-selectin
INVENTOR(S): Appeldoorn, Chantal Catharina Maria; Biessen, Erik Anna Leonardus; Molenaar, Thomas Jacobus Maria; Van Berkel, Theodorus Josephus Cornelis
PATENT ASSIGNEE(S): Yamanouchi Europe B.V., Neth.
SOURCE: PCT Int. Appl., 28 pp.
CODEN: PIXXD2
DOCUMENT TYPE: Patent
LANGUAGE: English
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2004033473	A1	20040422	WO 2003-EP11457	20031013
W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, OM, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW				
RW: GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM, AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PT, RO, SE, SI, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG				
CA 2501842	A1	20040422	CA 2003-2501842	20031013
AU 2003278090	A1	20040504	AU 2003-278090	20031013
EP 1549658	A1	20050706	EP 2003-769400	20031013
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO, MK, CY, AL, TR, BG, CZ, EE, HU, SK				
BR 2003015231	A	20050823	BR 2003-15231	20031013
JP 2006503876	T	20060202	JP 2004-542495	20031013
US 2005261207	A1	20051124	US 2005-530601	20050407
PRIORITY APPLN. INFO.:			EP 2002-79232 A	20021011
			WO 2003-EP11457 W	20031013

OTHER SOURCE(S): MARPAT 140:332537

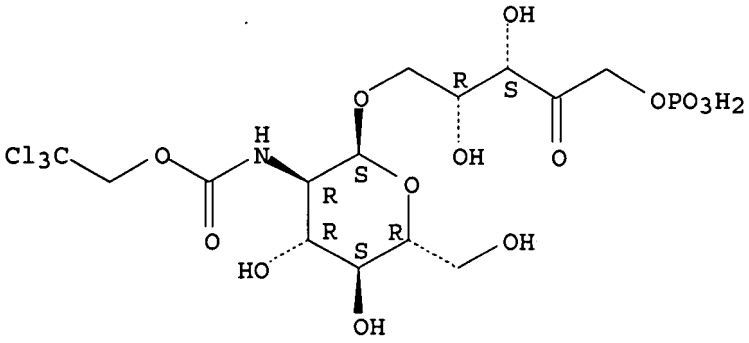
AB The invention relates to certain glucose-based compds. with affinity to P-selectin to act as antagonists or partial antagonists of P-selectin. These compds. are useful as targeting ligands with an ability to target drugs and genetic material to cells and tissues expressing P-selectin. The synthesis of glucose-based compds. and their use for the preparation of pharmaceutical compns. for the treatment of P-selectin-associated disorders, the conjugates, pharmaceutical carriers and drug delivery systems comprising these compds., and a method for determining whether a compound is capable of binding to P-selectin are also described.

IT 681121-11-9P 681121-12-0P 681121-13-1P
681121-25-5P 681121-26-6P 681121-27-7P
RL: BSU (Biological study, unclassified); SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses)
(preparation of glucose-based compds. with affinity to P-selectin)

RN 681121-11-9 HCAPLUS

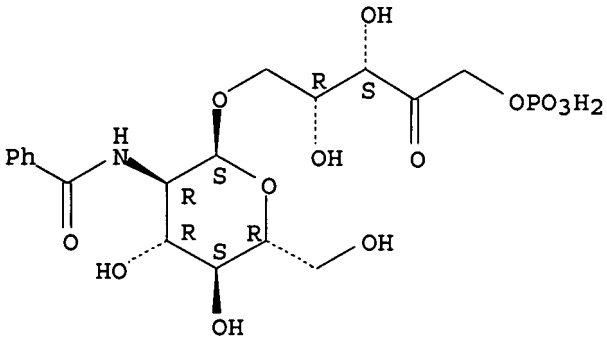
CN D-threo-2-Pentulose, 5-O-[2-deoxy-2-[[(2,2,2-trichloroethoxy)carbonyl]amino]-α-D-glucopyranosyl]-, 1-(dihydrogen phosphate) (9CI) (CA INDEX NAME)

Absolute stereochemistry.



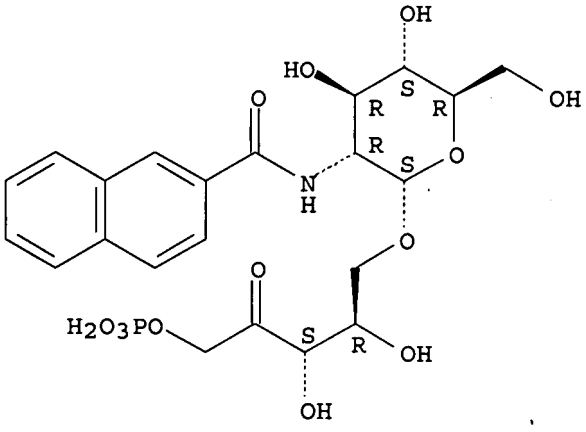
RN 681121-12-0 HCAPLUS
CN D-threo-2-Pentulose, 5-O-[2-(benzoylamino)-2-deoxy-α-D-glucopyranosyl]-, 1-(dihydrogen phosphate) (9CI) (CA INDEX NAME)

Absolute stereochemistry.



RN 681121-13-1 HCAPLUS
CN D-threo-2-Pentulose, 5-O-[2-deoxy-2-[(2-naphthalenylcarbonyl)amino]-α-D-glucopyranosyl]-, 1-(dihydrogen phosphate) (9CI) (CA INDEX NAME)

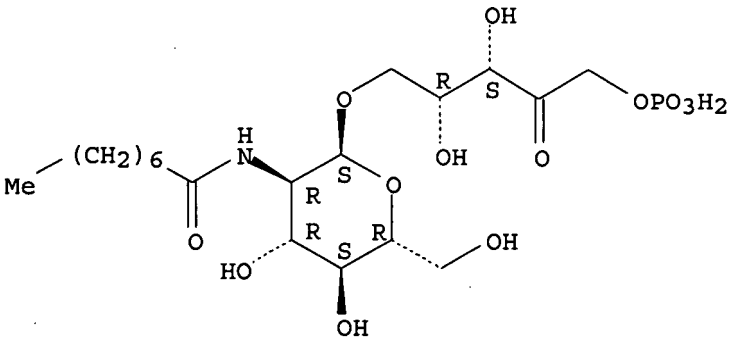
Absolute stereochemistry.



RN 681121-25-5 HCAPLUS
CN D-threo-2-Pentulose, 5-O-[2-deoxy-2-[(1-oxooctyl)amino]-α-D-

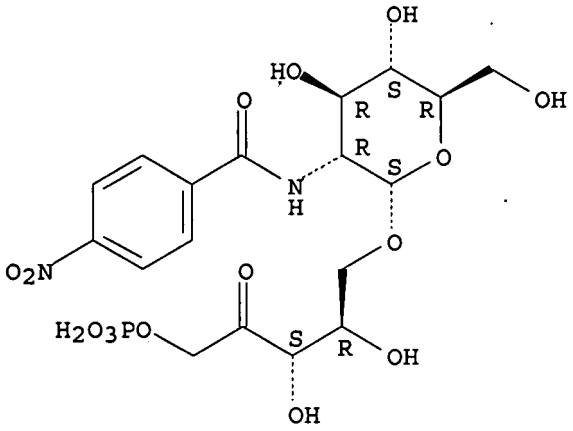
glucopyranosyl]-, 1-(dihydrogen phosphate) (9CI) (CA INDEX NAME)

Absolute stereochemistry.



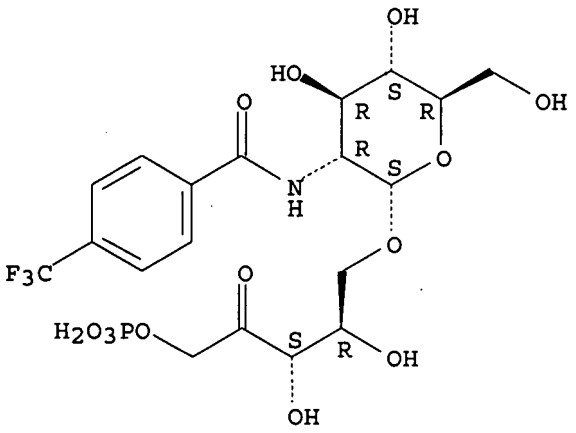
RN 681121-26-6 HCAPLUS
CN D-threo-2-Pentulose, 5-O-[2-deoxy-2-[(4-nitrobenzoyl)amino]-α-D-glucopyranosyl]-, 1-(dihydrogen phosphate) (9CI) (CA INDEX NAME)

Absolute stereochemistry.



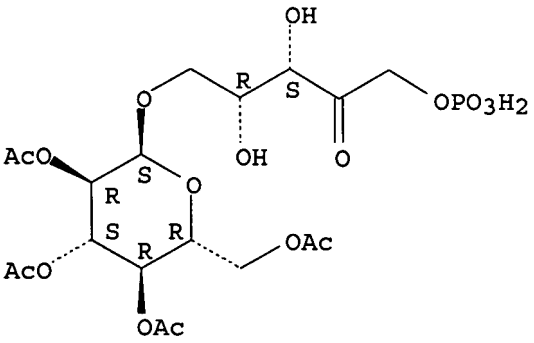
RN 681121-27-7 HCAPLUS
CN D-threo-2-Pentulose, 5-O-[2-deoxy-2-[[4-(trifluoromethyl)benzoyl]amino]-α-D-glucopyranosyl]-, 1-(dihydrogen phosphate) (9CI) (CA INDEX NAME)

Absolute stereochemistry.



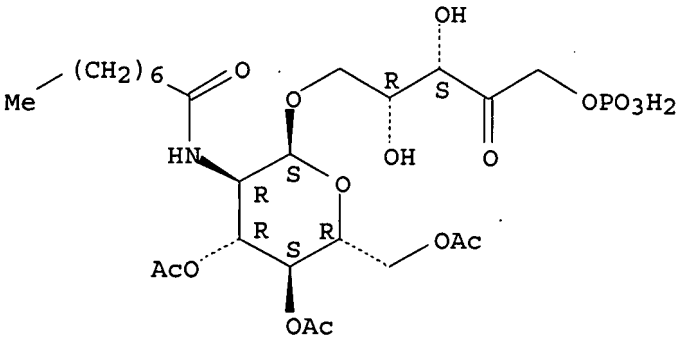
IT 681121-10-8P 681121-19-7P 681121-20-0P
681121-21-1P 681121-22-2P 681121-23-3P
681121-24-4P
RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)
(preparation of glucose-based compds. with affinity to P-selectin)
RN 681121-10-8 HCAPLUS
CN D-threo-2-Pentulose, 5-O-(2,3,4,6-tetra-O-acetyl-α-D-glucopyranosyl)-, 1-(dihydrogen phosphate) (9CI) (CA INDEX NAME)

Absolute stereochemistry.



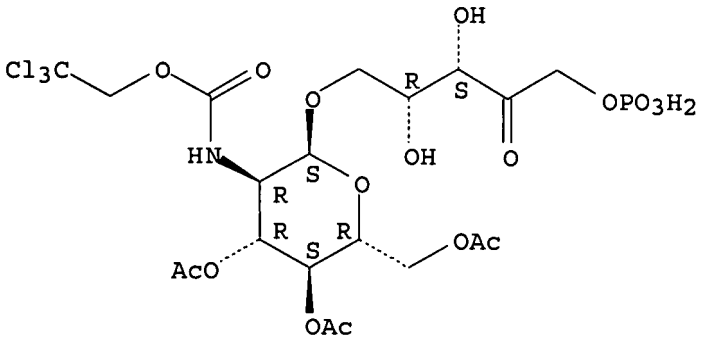
RN 681121-19-7 HCAPLUS
CN D-threo-2-Pentulose, 5-O-[3,4,6-tri-O-acetyl-2-deoxy-2-[(1-oxooctyl)amino]-α-D-glucopyranosyl]-, 1-(dihydrogen phosphate) (9CI) (CA INDEX NAME)

Absolute stereochemistry.



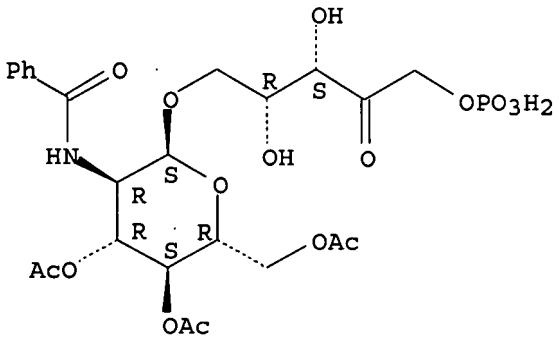
RN 681121-20-0 HCAPLUS
CN D-threo-2-Pentulose, 5-O-[3,4,6-tri-O-acetyl-2-deoxy-2-[[(2,2,2-trichloroethoxy)carbonyl]amino]-α-D-glucopyranosyl]-, 1-(dihydrogen phosphate) (9CI) (CA INDEX NAME)

Absolute stereochemistry.



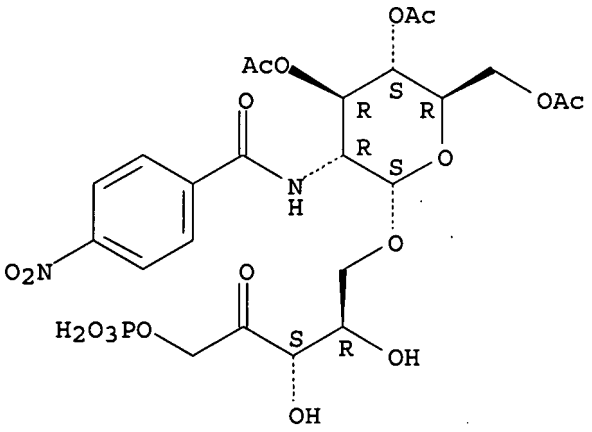
RN 681121-21-1 HCAPLUS
CN D-threo-2-Pentulose, 5-O-[3,4,6-tri-O-acetyl-2-(benzoylamino)-2-deoxy-α-D-glucopyranosyl]-, 1-(dihydrogen phosphate) (9CI) (CA INDEX NAME)

Absolute stereochemistry.



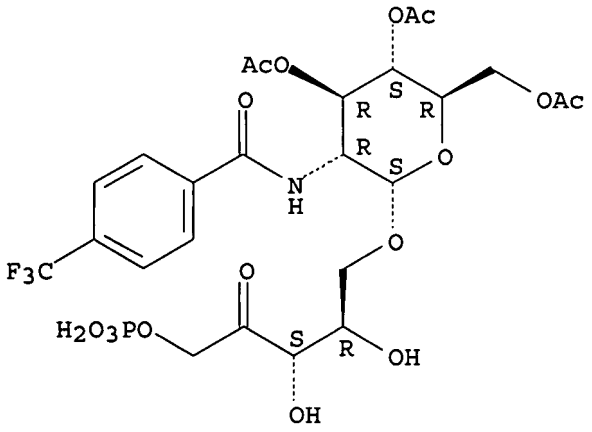
RN 681121-22-2 HCAPLUS
CN D-threo-2-Pentulose, 5-O-[3,4,6-tri-O-acetyl-2-deoxy-2-[(4-nitrobenzoyl)amino]-α-D-glucopyranosyl]-, 1-(dihydrogen phosphate) (9CI) (CA INDEX NAME)

Absolute stereochemistry.



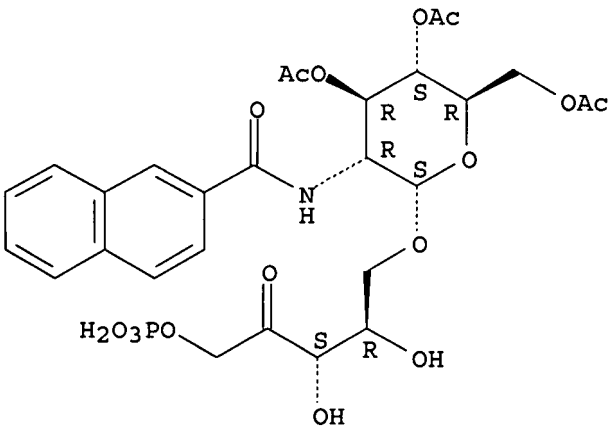
RN 681121-23-3 HCAPLUS
CN D-threo-2-Pentulose, 5-O-[3,4,6-tri-O-acetyl-2-deoxy-2-[[4-(trifluoromethyl)benzoyl]amino]-α-D-glucopyranosyl]-, 1-(dihydrogen phosphate) (9CI) (CA INDEX NAME)

Absolute stereochemistry.



RN 681121-24-4 HCAPLUS
CN D-threo-2-Pentulose, 5-O-[3,4,6-tri-O-acetyl-2-deoxy-2-[(2-naphthalenylcarbonyl)amino]-α-D-glucopyranosyl]-, 1-(dihydrogen phosphate) (9CI) (CA INDEX NAME)

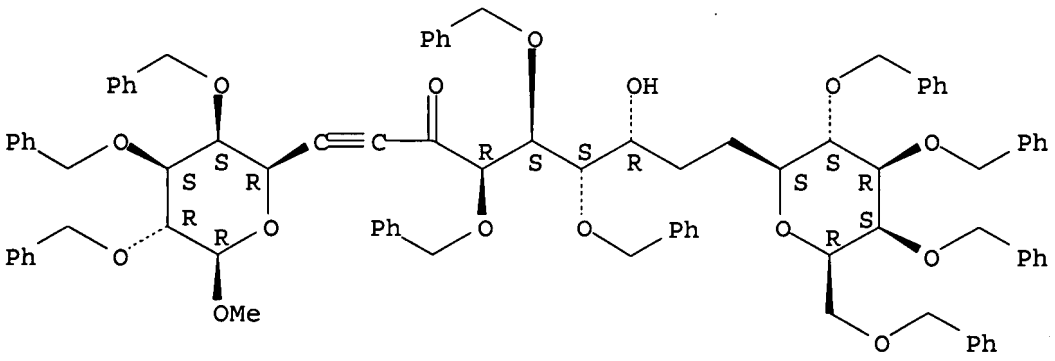
Absolute stereochemistry.



REFERENCE COUNT: 4 THERE ARE 4 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L10 ANSWER 2 OF 11 HCAPLUS COPYRIGHT 2007 ACS on STN
ACCESSION NUMBER: 1999:89657 HCAPLUS <<LOGINID::20070613>>
DOCUMENT NUMBER: 130:209889
TITLE: Synthesis of C-oligosaccharides that mimic their natural O-analogs immunodeterminants in binding to monoclonal immunoglobulins
AUTHOR(S): Xin, Yan-Chao; Zhang, Yong-Min; Mallet, Jean-Maurice; Glaudemans, Cornelis P. J.; Sinay, Pierre
CORPORATE SOURCE: Dep. Chimie, Ecole Normale Superieure, Paris, F-75231, Fr.
SOURCE: European Journal of Organic Chemistry (1999), (2), 471-476
CODEN: EJOCFK; ISSN: 1434-193X
PUBLISHER: Wiley-VCH Verlag GmbH
DOCUMENT TYPE: Journal
LANGUAGE: English
OTHER SOURCE(S): CASREACT 130:209889
AB The stereoselective synthesis of analogs of the Me β-glycosides of (1→6)-β-D-galacto-oligosaccharides (up to tetrasaccharide), in which the interglycosidic O atoms are replaced by a CH2 group, is described.
IT 220864-61-9P 220864-66-4P
RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)
(preparation of galacto C-oligosaccharides)
RN 220864-61-9 HCAPLUS
CN 1-Nonyn-3-one, 7-hydroxy-4,5,6-tris(phenylmethoxy)-1-[(2R,3S,4S,5R,6R)-tetrahydro-6-methoxy-3,4,5-tris(phenylmethoxy)-2H-pyran-2-yl]-9-[(2S,3S,4R,5S,6R)-tetrahydro-3,4,5-tris(phenylmethoxy)-6-[(phenylmethoxy)methyl]-2H-pyran-2-yl]-, (4R,5S,6S,7R)- (9CI) (CA INDEX NAME)

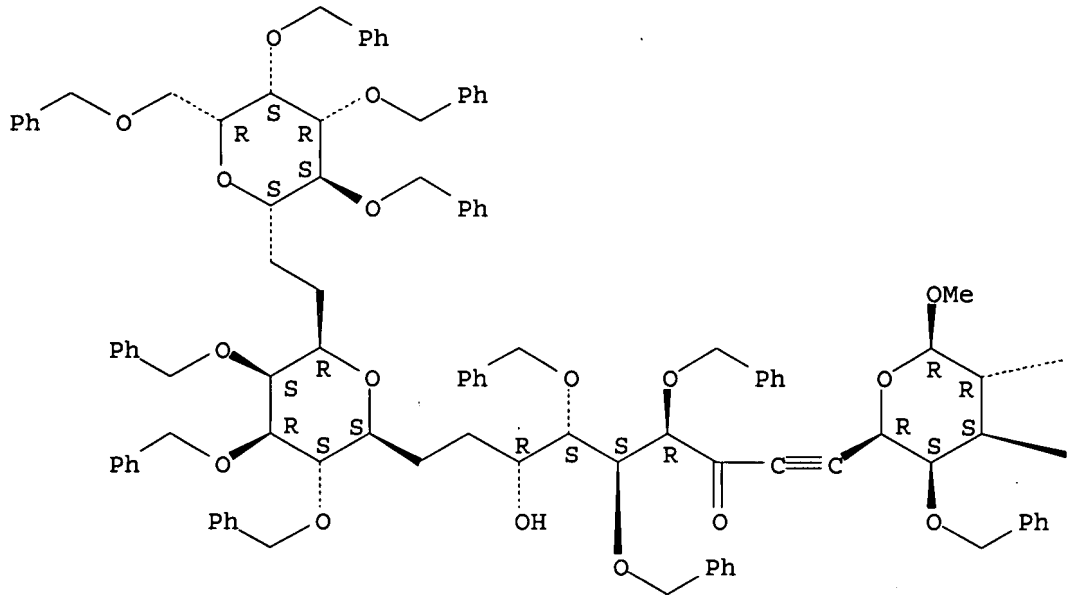
Absolute stereochemistry.

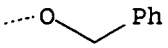


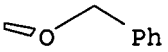
RN 220864-66-4 HCAPLUS
CN 1-Nonyn-3-one, 7-hydroxy-4,5,6-tris(phenylmethoxy)-1-[(2R,3S,4S,5R,6R)-tetrahydro-6-methoxy-3,4,5-tris(phenylmethoxy)-2H-pyran-2-yl]-9-[(2S,3S,4R,5S,6R)-tetrahydro-3,4,5-tris(phenylmethoxy)-6-[2-[(2S,3S,4R,5S,6R)-tetrahydro-3,4,5-tris(phenylmethoxy)-6-[(phenylmethoxy)methyl]-2H-pyran-2-yl]ethyl]-2H-pyran-2-yl]-, (4R,5S,6S,7R)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.

PAGE 1-A

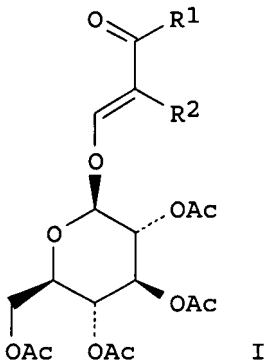






REFERENCE COUNT: 36 THERE ARE 36 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L10 ANSWER 3 OF 11 HCAPLUS COPYRIGHT 2007 ACS on STN
ACCESSION NUMBER: 1997:727876 HCAPLUS <<LOGINID::20070613>>
DOCUMENT NUMBER: 128:34659
TITLE: Stereoselective epoxidations of vinylogous esters/carbonates directed by the 2,3,4,6-tetra-O-acetyl-β-D-glucopyranosyl auxiliary: a route to near stereopure tertiary alcohols bearing functional arms
AUTHOR(S): Bhatia, Gurpreet S.; Lowe, Richard F.; Pritchard, Robin G.; Stoodley, Richard J.
CORPORATE SOURCE: Department Chemistry, UMIST, Manchester, M60 1QD, UK
SOURCE: Chemical Communications (Cambridge) (1997), (20), 1981-1982
CODEN: CHCOFS; ISSN: 1359-7345
PUBLISHER: Royal Society of Chemistry
DOCUMENT TYPE: Journal
LANGUAGE: English
OTHER SOURCE(S): CASREACT 128:34659
GI



I

AB The 2,3,4,6-tetra-O-acetyl-β-D-glucopyranosyl auxiliary is effective

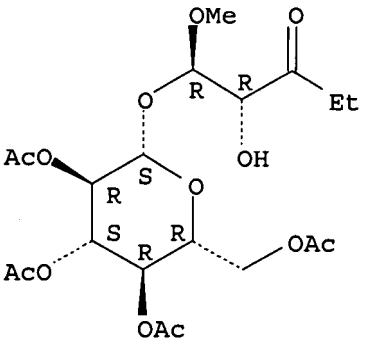
in directing the epoxidn. of vinylogous esters/carbonates I [R1 = Me, Et, OEt, R2 = Me, H; R1R2 (CH2)3, OCH2CH2] with dimethyldioxirane; the derived epoxides are convertible into a versatile class of 1,2,3-trifunctional chirons.

IT 199481-29-3P
RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)
(preparation of tertiary alcs. via stereoselective epoxidns. of vinylogous esters/carbonates using glucopyranosyl auxiliary)

RN 199481-29-3 HCAPLUS

CN 3-Pentanone, 2-hydroxy-1-methoxy-1-[(2,3,4,6-tetra-O-acetyl-β-D-glucopyranosyl)oxy]-, (1R,2R)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.

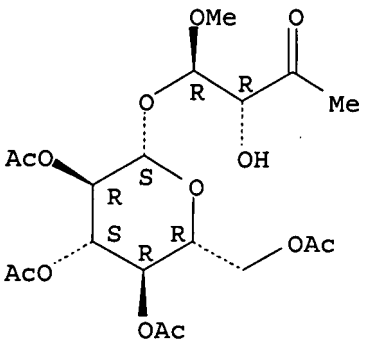


IT 199481-28-2P
RL: SPN (Synthetic preparation); PREP (Preparation)
(preparation of tertiary alcs. via stereoselective epoxidns. of vinylogous esters/carbonates using glucopyranosyl auxiliary)

RN 199481-28-2 HCAPLUS

CN 2-Butanone, 3-hydroxy-4-methoxy-4-[(2,3,4,6-tetra-O-acetyl-β-D-glucopyranosyl)oxy]-, (3R,4R)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.



REFERENCE COUNT: 15 THERE ARE 15 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

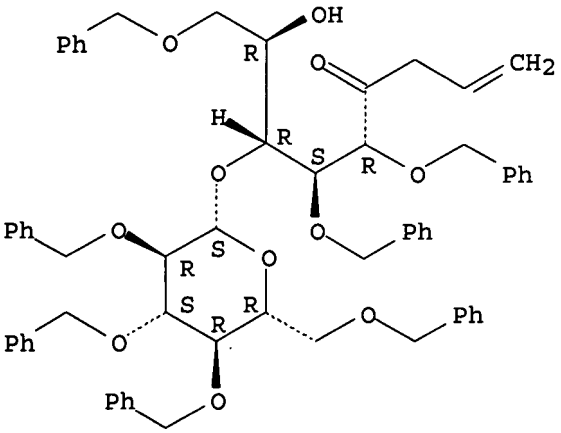
L10 ANSWER 4 OF 11 HCAPLUS COPYRIGHT 2007 ACS on STN
ACCESSION NUMBER: 1997:451514 HCAPLUS <<LOGINID::20070613>>
DOCUMENT NUMBER: 127:162025
TITLE: The synthesis of some epoxyalkyl β-C-glycosides as potential inhibitors of β-glucan hydrolases

AUTHOR(S): Best, Wayne M.; Ferro, Vito; Harle, Julia; Stick, Robert V.; Tilbrook, D. Matthew G.
CORPORATE SOURCE: Dep Chemistry, Univ. Western Australia, Nedlands, 6907, Australia
SOURCE: Australian Journal of Chemistry (1997), 50(5), 463-472
CODEN: AJCHAS; ISSN: 0004-9425
PUBLISHER: CSIRO
DOCUMENT TYPE: Journal
LANGUAGE: English
AB The treatment of tetra-O-benzyl-D-glucono-1,5-lactone with various alkenylmagnesium halides gave the intermediate lactols which, upon redn (Et3SiH/BF3) and protecting group manipulation, yielded alkenyl tetra-O-acetyl-β-D-C-glucopyranosides in good yield. These β-D-C-glucosides were precursors of the epoxyalkyl β-D-C-glucopyranosides, themselves putative inhibitors of β-glucan hydrolases. Similar addns. of Grignard reagents to per-benzylated cellobionolactone were not as successful in yielding epoxyalkyl β-C-cellobiosides. The addition of Grignard reagents to 1,2-anhydro-3,4,6-tri-O-benzyl-α-D-glucose offers a viable alternative route to the prop-2-enyl β-D-C-glucoside, but not to the but-3-enyl and pent-4-enyl counterparts. Likewise, the addition of Grignard reagents to a 1,2-anhydro cellobiose gave disappointing results. Preliminary results are reported for a novel approach to alkenyl β-D-C-glucosides by the alkylation of nitromethyl β-D-C-glucosides.

IT 193546-78-0P 193546-80-4P 193546-81-5P
RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)
(synthesis of epoxyalkyl β-C-glycosides as potential inhibitors of β-glucan hydrolases)

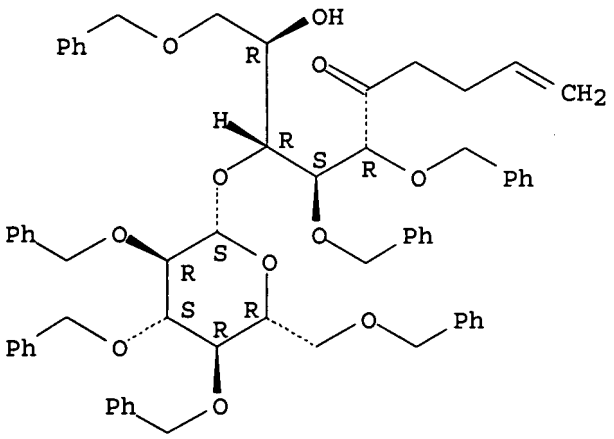
RN 193546-78-0 HCAPLUS
CN D-gluco-Non-1-en-4-ulose, 1,2,3-trideoxy-5,6,9-tris-O-(phenylmethyl)-7-O-[2,3,4,6-tetrakis-O-(phenylmethyl)-β-D-glucopyranosyl]- (9CI) (CA INDEX NAME)

Absolute stereochemistry.



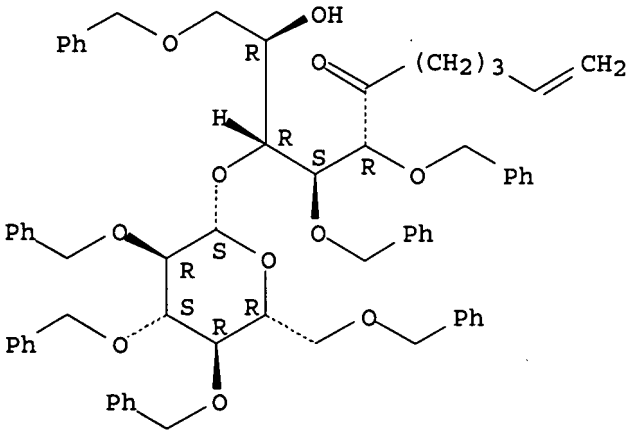
RN 193546-80-4 HCAPLUS
CN D-gluco-Dec-1-en-5-ulose, 1,2,3,4-tetradeoxy-6,7,10-tris-O-(phenylmethyl)-8-O-[2,3,4,6-tetrakis-O-(phenylmethyl)-β-D-glucopyranosyl]- (9CI) (CA INDEX NAME)

Absolute stereochemistry.



RN 193546-81-5 HCAPLUS
CN 1-Undecen-6-one, 10-hydroxy-7,8,11-tris(phenylmethoxy)-9-[[2,3,4,6-tetrakis-O-(phenylmethyl)-β-D-glucopyranosyl]oxy]-, (7R,8S,9R,10R)-(9CI) (CA INDEX NAME)

Absolute stereochemistry. Rotation (+).



REFERENCE COUNT: 53 THERE ARE 53 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

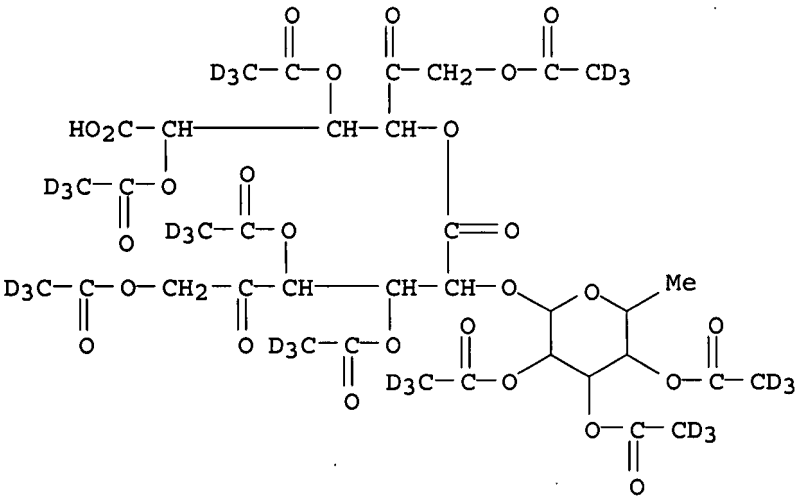
L10 ANSWER 5 OF 11 HCAPLUS COPYRIGHT 2007 ACS on STN
ACCESSION NUMBER: 1991:492739 HCAPLUS <<LOGINID::20070613>>
DOCUMENT NUMBER: 115:92739
TITLE: Assignment of anomeric configurations of pyranose sugars in oligosaccharides using a sensitive FAB-MS strategy
AUTHOR(S): Khoo, Kay Hooi; Dell, Anne
CORPORATE SOURCE: Dep. Biochem., Imp. Coll. Sci. Technol. Med., London, SW7 2AZ, UK
SOURCE: Glycobiology (1990), 1(1), 83-91
CODEN: GLYCE3; ISSN: 0959-6658
DOCUMENT TYPE: Journal
LANGUAGE: English
AB Anomeric configurations of pyranose sugars in oligosaccharides is determined by fast-atom-bombardment mass spectrometry (FAB-MS). The method, which is applicable to mixts. of reduced or unreduced oligosaccharides, is based upon FAB-MS analyses of deuteroacetylated derivs. before and after oxidation

with CrO3. The products of chromium trioxide oxidation can be successfully analyzed at the microgram level using FAB-MS. The mol. and fragment ions produced in the FAB experiment define the number of sites oxidized and their location in the sequence. For samples which fragment poorly we describe a mild methanolysis procedure, compatible with FAB-MS, which preferentially cleaves the esters formed during the oxidation Incorporation of an acetolysis step prior to oxidation permits analyses of polysaccharides. This oxidation/FAB-MS strategy should prove valuable in structural analyses of a wide range of biol. important carbohydrates which cannot be isolated in sufficient quantities to permit NMR studies.

IT 135296-87-6P
RL: PRP (Properties); SPN (Synthetic preparation); PREP (Preparation)
(preparation and mass spectra of)

RN 135296-87-6 HCAPLUS

CN D-xylo-5-Hexulosonic acid, O-2,3,4-tri-O-(acetyl-d3)-6-deoxy-D-galactopyranosyl-(1→2)-O-3,4,6-tri-O-(acetyl-d3)-L-arabino-5-hexulosonoyl-(1→4)-, 2,3,6-tri(acetate-d3) (9CI) (CA INDEX NAME)

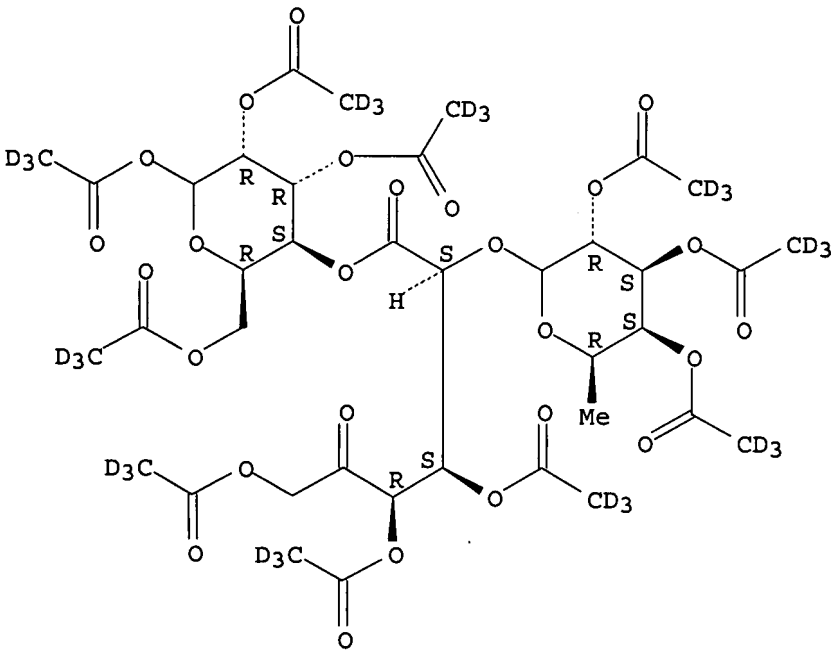


IT 135281-19-5P
RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)
(preparation, methanolysis, and mass spectra of)

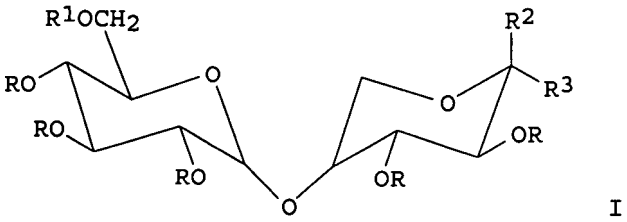
RN 135281-19-5 HCAPLUS

CN L-arabino-5-Hexulosonic acid, 2-O-[2,3,4-tri-O-(acetyl-d3)-6-deoxy-D-galactopyranosyl]-, tri(acetate-d3), ester with D-glucopyranose 1,2,3,6-tetra(acetate-d3) (9CI) (CA INDEX NAME)

Absolute stereochemistry.



L10 ANSWER 6 OF 11 HCAPLUS COPYRIGHT 2007 ACS on STN
ACCESSION NUMBER: 1991:24402 HCAPLUS <<LOGINID::20070613>>
DOCUMENT NUMBER: 114:24402
TITLE: Synthesis and reactions of leucrose and its exocyclic glycal
AUTHOR(S): Thiem, Joachim; Kleeberg, Matthias
CORPORATE SOURCE: Org. Chem. Inst., Westfael. Wilhelms-Univ., Muenster, D-4400, Germany
SOURCE: Carbohydrate Research (1990), 205, 333-45
CODEN: CRBRAT; ISSN: 0008-6215
DOCUMENT TYPE: Journal
LANGUAGE: English
OTHER SOURCE(S): CASREACT 114:24402
GI

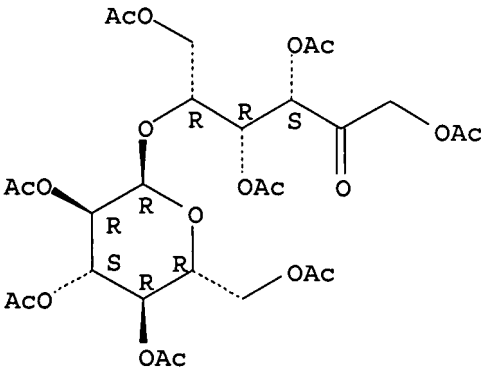


I

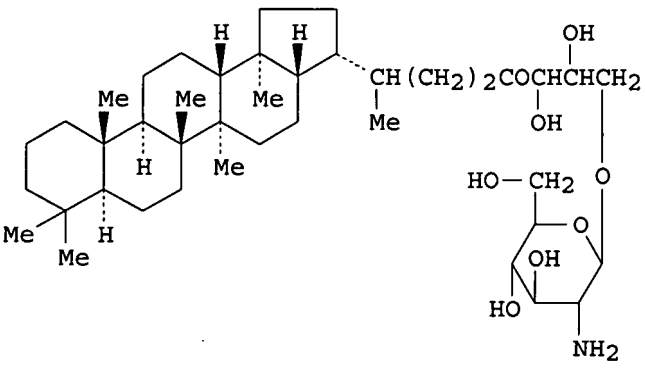
AB The conversion of leucrose (I; R = R1 = H, R2 = OH, R3 = CH2OH) into the corresponding I [R = Ac, R1 = CH2SO2Me, R2R3 = CH2 (II); R = R1 = Bz, R2R3 = CH2 (III)], is described. Hydrogenation of III gave the corresponding anhydroalditol derivs. N-Iodosuccinimide-mediated glycosylation of III gave 1,2,3,4-tetra-O-acetyl-6-O-[3,4-di-O-benzoyl-1-deoxy-1-iodo-5-O-(2,3,4,6-tetra-O-benzoyl-α-D-glucopyranosyl)-β-D-fructopyranosyl]-β-D-glucopyranose. Some amino, acetylated, and isopropylidene derivs. of leucrose have been prepared and characterized.

IT 131157-87-4P
RL: SPN (Synthetic preparation); PREP (Preparation)
(preparation of)
RN 131157-87-4 HCAPLUS
CN D-Fructose, 5-O-(2,3,4,6-tetra-O-acetyl-α-D-glucopyranosyl)-,
1,3,4,6-tetraacetate (9CI) (CA INDEX NAME)

Absolute stereochemistry.



L10 ANSWER 7 OF 11 HCAPLUS COPYRIGHT 2007 ACS on STN
ACCESSION NUMBER: 1989:570752 HCAPLUS <<LOGINID::20070613>>
DOCUMENT NUMBER: 111:170752
TITLE: Prokaryotic triterpenoids. A novel hopanoid from the ethanol-producing bacterium Zymomonas mobilis
AUTHOR(S): Flesch, Gerard; Rohmer, Michel
CORPORATE SOURCE: Ec. Natl. Super. Chim. Mulhouse, Mulhouse, 68093, Fr.
SOURCE: Biochemical Journal (1989), 262(2), 673-5
CODEN: BIJOAK; ISSN: 0306-3275
DOCUMENT TYPE: Journal
LANGUAGE: English
GI

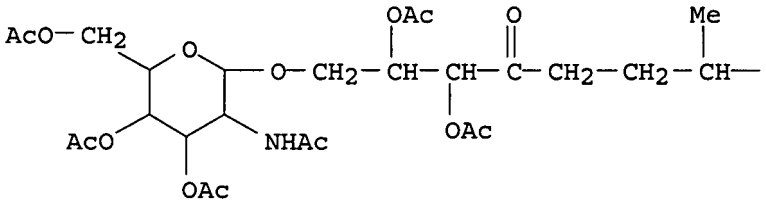


I

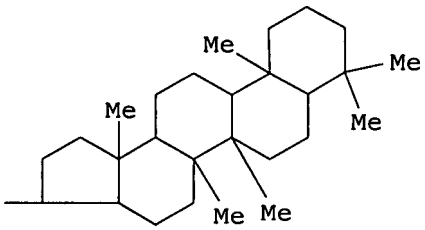
AB Among the triterpenoids of Z. mobilis, a novel hopanoid (I), 32-oxabacteriohopane-33,34,35-triol β-linked via its primary hydroxy group to glucosamine, was isolated as a minor compound
IT 123167-02-2P
RL: SPN (Synthetic preparation); PREP (Preparation)
(preparation of)

RN 123167-02-2 HCAPLUS
CN 4-Octanone, 2,3-bis(acetyloxy)-7-[(21α)-A'-neo-22,29,30-trinorgammaceran-21-yl]-1-[[3,4,6-tri-O-acetyl-2-(acetylamino)-2-deoxy-β-D-glucopyranosyl]oxy]-, [2S-(2R*,3R*,7S*)]- (9CI) (CA INDEX NAME)

PAGE 1-A



PAGE 1-B



L10 ANSWER 8 OF 11 HCAPLUS COPYRIGHT 2007 ACS on STN
ACCESSION NUMBER: 1982:611416 HCAPLUS <<LOGINID::20070613>>
DOCUMENT NUMBER: 97:211416
TITLE: Factors determining steric course of enzymic glycosylation reactions: glycosyl transfer products formed from 2,6-anhydro-1-deoxy-D-gluco-hept-1-enitol by α-glucosidases and an inverting exo-α-glucanase
AUTHOR(S): Schlesselmann, Peter; Fritz, Hans; Lehmann, Jochen; Uchiyama, Takao; Brewer, Curtis F.; Hehre, Edward J.
CORPORATE SOURCE: Chem. Lab., Albert Ludwigs Univ., Freiburg/Br., Fed. Rep. Ger.
SOURCE: Biochemistry (1982), 21(25), 6606-14
CODEN: BICHAW; ISSN: 0006-2960
DOCUMENT TYPE: Journal
LANGUAGE: English
AB Glycosyl transfer products were formed from 2,6-anhydro-1-deoxy-D-gluco-hept-1-enitol (heptenitol) by purified α-glucosidases from Candida tropicalis and rice and by an inverting exo-α-glucanase (glucodextranase) from Arthrobacter globiformis. The products were structurally defined through 1H and 13C NMR spectra of their crystalline per-O-acetates in comparison with those of authentic Me 1-deoxy-α- and Me 1-deoxy-β-D-gluco-heptuloside. 1-Deoxy-α-D-gluco-heptulosyl-(2→7)-heptenitol and 1-deoxy-α-D-gluco-heptulosyl-(2→7)-D-gluco-heptulose were produced by both the Candida α-glucosidase and the glucodextranase; 1-deoxy-α-D-gluco-

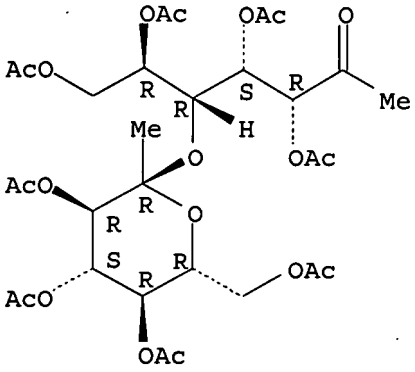
heptulosyl-(2→5)- and 1-deoxy-α-D-gluco-heptulosyl-(2→7)-D-gluco-heptuloses by the rice α-glucosidase. These results, together with earlier findings of stereospecific hydration of heptenitol catalyzed by the same enzymes show the inadequacy of the long-accepted notion that carbohydrase-catalyzed reactions always lead to retention (or always lead to inversion) of substrate configuration. In particular, the finding that glucodextranase forms transfer products of α-configuration and a hydration product of β configuration from the same substrate provides a clear example of the functioning of acceptors rather than donor substrates in selecting the steric course of reactions catalyzed by a glycosylase. The circumstances under which acceptor cosubstrates might be expected to show this significant effect are discussed. The opportunity presumably would exist whenever carbonium ion-mediated reactions are catalyzed by glycosylases that provide oppositely oriented approaches of different acceptors to the catalytic center.

IT 83615-54-7P
RL: SPN (Synthetic preparation); PREP (Preparation)
(preparation of)

RN 83615-54-7 HCAPLUS

CN D-gluco-2-Heptulose, 1-deoxy-5-O-(3,4,5,7-tetra-O-acetyl-1-deoxy-α-D-gluco-2-heptulopyranosyl)-, tetraacetate (9CI) (CA INDEX NAME)

Absolute stereochemistry.



L10 ANSWER 9 OF 11 HCAPLUS COPYRIGHT 2007 ACS on STN

ACCESSION NUMBER: 1976:478279 HCAPLUS <<LOGINID::20070613>>

DOCUMENT NUMBER: 85:78279

TITLE: The mass spectra of permethylated oligosaccharides

AUTHOR(S): Moor, J.; Waight, E. S.

CORPORATE SOURCE: Org. Chem. Lab., Imp. Coll. Sci. Technol., London, UK

SOURCE: Biomedical Mass Spectrometry (1975), 2(1), 36-45
CODEN: BMSYAL; ISSN: 0306-042X

DOCUMENT TYPE: Journal

LANGUAGE: English

AB The electron impact mass spectra of the permethyl ethers of 25 oligosaccharides are reported. The spectra gave considerable structural information, especially for the detection of fructose units, determination of pyranose/furanose ratio and position of the glycosidic link. Spectra of permethyl ether derivs. were more information than the spectra of the corresponding Me3Si ethers.

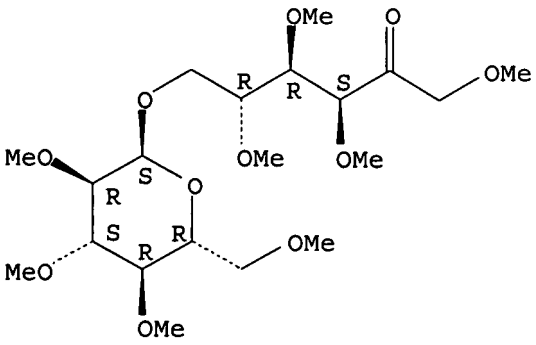
IT 55652-45-4 60618-00-0
RL: PRP (Properties)
(mass spectrum of)

RN 55652-45-4 HCAPLUS

CN D-Fructose, 1,3,4,5-tetra-O-methyl-6-O-(2,3,4,6-tetra-O-methyl-α-D-

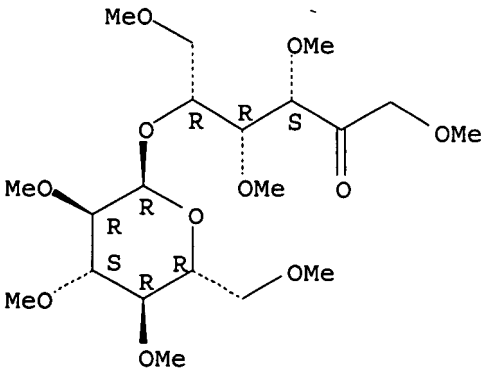
glucopyranosyl)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.



RN 60618-00-0 HCAPLUS
CN D-Fructose, 1,3,4,6-tetra-O-methyl-5-O-(2,3,4,6-tetra-O-methyl-α-D-glucopyranosyl)- (9CI) (CA INDEX NAME)

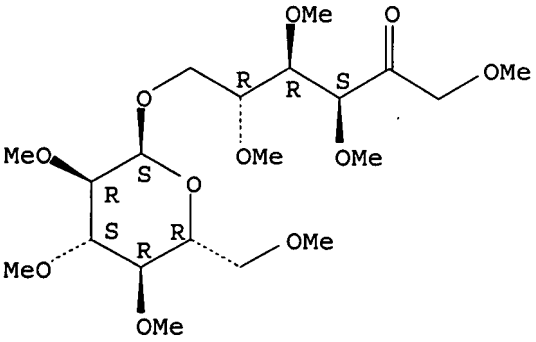
Absolute stereochemistry.



L10 ANSWER 10 OF 11 HCAPLUS COPYRIGHT 2007 ACS on STN
ACCESSION NUMBER: 1975:112208 HCAPLUS <<LOGINID::20070613>>
DOCUMENT NUMBER: 82:112208
TITLE: Field desorption mass spectra of oligosaccharides and their permethylates and peracetylates
AUTHOR(S): Moor, Jacob; Waight, E. S.
CORPORATE SOURCE: Org. Chem. Lab., Imp. Coll. Sci. Technol., London, UK
SOURCE: Organic Mass Spectrometry (1974), 9(9), 903-12
CODEN: ORMSBG; ISSN: 0030-493X
DOCUMENT TYPE: Journal
LANGUAGE: English
AB The field desorption mass spectra of di-, tri-, and tetrasaccharides showed strong [M + 1]+ peaks, formed by proton transfer between neighboring adsorbed sugar mols. or from residual H2O, thus allowing mol. weight determination The variation in intensities of fragment ions with emitter current were studied. Permethylated oligosaccharides gave intense mol. ions but the most intense peak was due to the loss of MeOCH2. The mol. ions of peracetylated oligosaccharides were weak, loss of AcOH being an important process. For all the compds. studied, interglycosidio cleavage produced intense peaks corresponding to monosaccharidyl cations. Electron-impact and field desorption techniques are complementary.

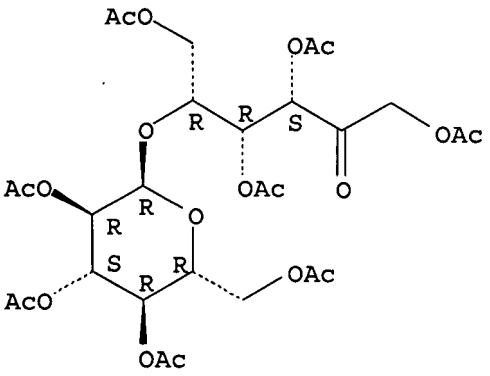
IT 55652-45-4
RL: PRP (Properties)
(field desorption mass spectrum of)
RN 55652-45-4 HCAPLUS
CN D-Fructose, 1,3,4,5-tetra-O-methyl-6-O-(2,3,4,6-tetra-O-methyl-α-D-glucopyranosyl)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.



L10 ANSWER 11 OF 11 HCAPLUS COPYRIGHT 2007 ACS on STN
ACCESSION NUMBER: 1958:71618 HCAPLUS <<LOGINID::20070613>>
DOCUMENT NUMBER: 52:71618
ORIGINAL REFERENCE NO.: 52:12682b-c
TITLE: Infrared identification of disaccharides
AUTHOR(S): White, Jonathan W., Jr.; Eddy, C. R.; Petty, Jeanne; Hoban, Nancy
CORPORATE SOURCE: Eastern Regional Research Lab., Philadelphia, PA
SOURCE: Anal. Chem. (1958), 30, 506-13
CODEN: ANCHAM; ISSN: 0003-2700
DOCUMENT TYPE: Journal
LANGUAGE: Unavailable
AB The value of infrared spectra for the identification of amorphous disaccharides and their acetates, by comparison with spectra of known disaccharides and their acetates, is demonstrated. Infrared spectra of 10 amorphous disaccharides, of D-glucose, of D-glucose and D-fructose, and of their β-octaacetates are presented over the range 650-1500 cm.-1 KBr disks were used. All spectra differ in sufficient detail to allow differentiation among closely related disaccharides.
IT 131157-87-4, Leucrose, octaacetate
(spectra of)
RN 131157-87-4 HCAPLUS
CN D-Fructose, 5-O-(2,3,4,6-tetra-O-acetyl-α-D-glucopyranosyl)-, 1,3,4,6-tetraacetate (9CI) (CA INDEX NAME)

Absolute stereochemistry.



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COST IN U.S. DOLLARS	SINCE FILE ENTRY	TOTAL SESSION
FULL ESTIMATED COST	60.57	410.28